

DRILL HOLES

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PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 140 (E. BALTIMORE ST.) AND TREVANION ROAD IN CARROLL COUNTY. MD 140 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASE ACROSS THE EAST LEG OF MD 140 AND A CONCURRENT PEDESTRIAN PHASE ACROSS TREVANION ROAD.

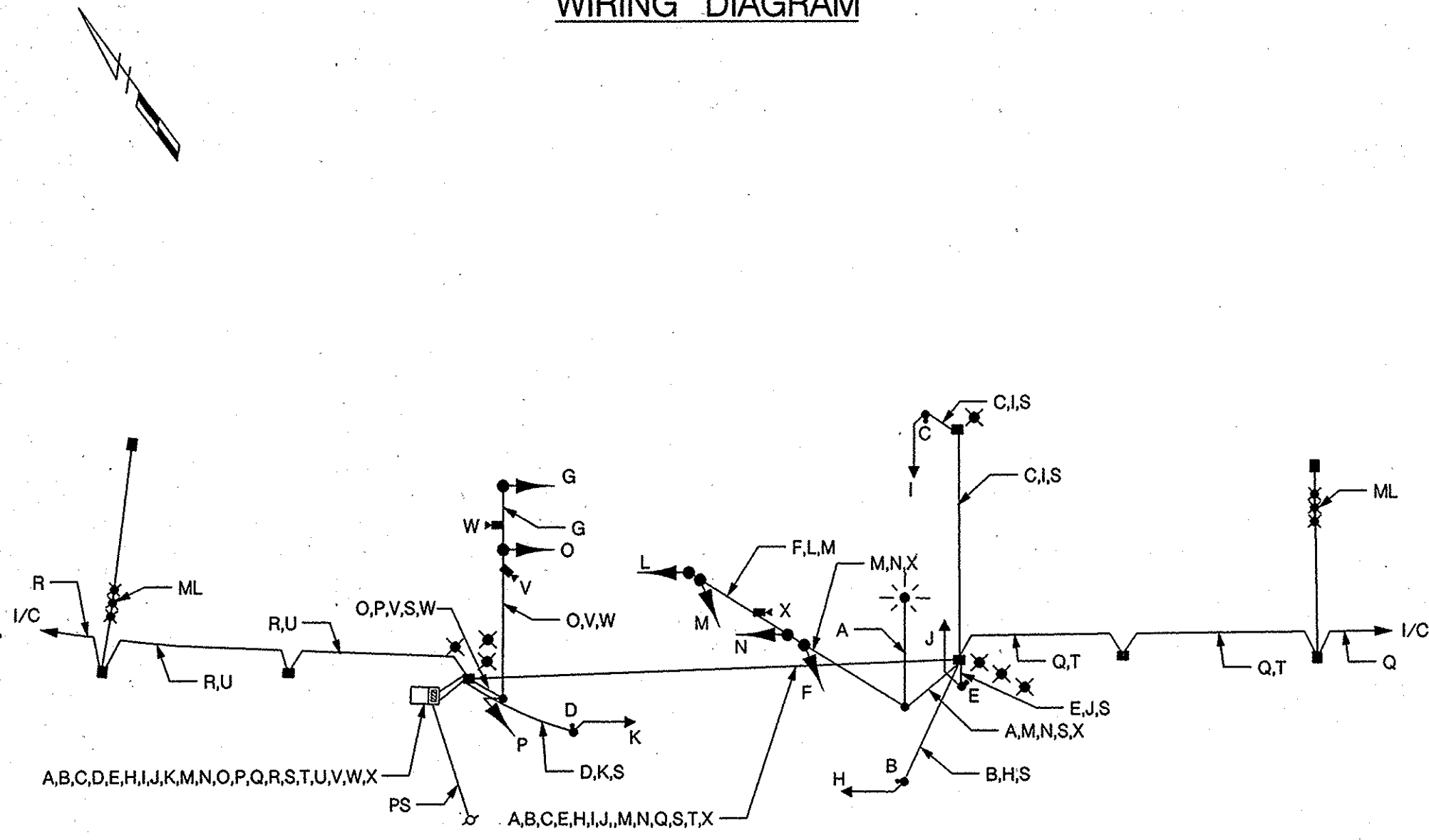
CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE, ONE (1), FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER AND VIDEO DETECTION INTERFACE EQUIPMENT HOUSED IN A BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MSHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR MUST PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.

WIRING DIAGRAM



WIRING KEY

- A 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) TRAY CABLE
- B-E 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- F-L 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- M-P 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- Q-R 12-PAIR VOICE GRADE INTERCONNECT CABLE CABLE
- S STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- T-U MICRO-LOOP PROBE LEAD-IN
- V-X VIDEO DETECTION CABLE
- PS PROPOSED ELECTRIC SERVICE
- ML GROUND ROD
- ML MICRO-LOOP PROBE

NOTE: ADEQUATE WIRE SHALL BE PROVIDED TO ALLOW SIGNAL HEAD RELOCATION DURING MAINTENANCE OF TRAFFIC.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
971017	1 EA	BASE MOUNTED CABINET AND CONTROLLER WITH TELEMETRY
973023	59 SF	SHEET ALUMINUM SIGNS TO CONSIST OF THE FOLLOWING: 1 EA - D3-2 DUAL FACE SIGN (VAR. X 16") - MAST ARM MOUNT 2 EA - W3-3 SIGN (36" X 36") WITH "NEW" PANEL (24" X 24") - GROUND MOUNT 1 EA - M95-1/D3-2 SIGN (78" X 40") - MAST ARM MOUNT
90000	1 EA	VIDEO INTERFACE EQUIPMENT
963010	1 EA	FOUR-CHANNEL LOOP DETECTOR AMPLIFIER - RACK MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
203030	7 CY	TEST PIT EXCAVATION
585620	300 LF	FURNISH AND INSTALL 12 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
585624	75 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
816005	3 EA	FURNISH AND INSTALL 250 FT. VIDEO DETECTION CABLE
800000	4 EA	FURNISH AND INSTALL 16 IN. COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	18 EA	FURNISH AND INSTALL 12 IN. L.E.D. VEHICULAR SIGNAL HEAD SECTION
866103	1 EA	FURNISH AND INSTALL 15 FT. STREET LIGHTING ARM
800000	1 EA	FURNISH AND INSTALL 250 WATT HPSV LUMINAIRE
800000	3 EA	FURNISH AND INSTALL 8 IN. L.E.D. VEHICULAR SIGNAL HEAD SECTION
807410	1 EA	FURNISH AND INSTALL ELECTRIC UTILITY SERVICE EQUIPMENT-120 /240 VOLTS, 200 AMPS.
818036	1 EA	FURNISH AND INSTALL 50 FT. MAST ARM AND POLE
818041	1 EA	FURNISH AND INSTALL 60 FT. MAST ARM AND POLE
800000	4 EA	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE
800000	4 EA	FURNISH AND INSTALL AUDIBLE-TACTILE PEDESTRIAN PUSHBUTTON AND SIGN
816001	2 EA	FURNISH AND INSTALL NON-INVASIVE MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN
816001	3 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA
805135	90 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
805140	20 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
801004	14 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
800000	84 LF	FURNISH AND INSTALL WOOD SIGN SUPPORTS (4 IN. X 4 IN.)
802501	250 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
805150	100 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - SLOTTED
805155	620 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - SLOTTED
810010	50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 A.W.G.)
811001	8 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
800000	7 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH
861105	350 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 14 A.W.G.)
861107	450 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
861108	600 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)
861116	200 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 A.W.G.) - TRAY CABLE
871202	1 EA	INSTALL BASE MOUNTED CABINET AND CONTROLLER
813014	26 SF	INSTALL GROUND MOUNTED SIGN
813015	33 SF	INSTALL OVERHEAD SIGN
860265	18 EA	RELOCATE EXISTING SIGNAL HEAD (DURING MAINTENANCE OF TRAFFIC)

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 7 ARE AS FOLLOWS:

MR. JOHN CONCANNON
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(301) 624-8141

MR. RAY JOHNSON
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(301) 624-8105

MS. ANDREA ABEND
ASSISTANT DISTRICT ENGINEER - UTILITIES
(301) 624-8110

CONTACT PERSONS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

CONTACT FOR THE POWER COMPANY

ALLEGHENY POWER
P.O. BOX 1392
FAIRMONT, WV. 26554
(304) 367-3370

PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11
	R	R	R	R	R	R	R	R	R	R	R
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	G	G	G	G	G	G	G	G	G	G	G
PHASE 2 & 6	G	G	G	G	R	R	R	WK	WK	DW	DW
PED. CLEAR	Y	Y	Y	Y	R	R	R	FL-DW	FL-DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	R	DW	DW	WK	WK
PED. CLEAR	R	R	R	R	G	G	G	DW	DW	FL-DW	FL-DW
4 ALT CHANGE	R	R	R	R	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	FLR	DARK	DARK	DARK	DARK

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101
FAX (410) 923-6473
EMAIL TRAFFIC.CONCEPTS@COMCAST.NET

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION	
GENERAL INFORMATION PLAN MD 140 (E. BALTIMORE ST.) AND TREVANION ROAD TANEYTOWN, MARYLAND	
SCALE NONE	DATE 11-03-06
CONTRACT NO. CL6955185	
DESIGNED BY T. ZAYDEL	COUNTY CARROLL
DRAWN BY T. ZAYDEL	LOGMILE
CHECKED BY K. SCHMID	T.I.M.S. NO. H 545
F.A.P. NO. NA	TOD NO.
DRAWING NO. Ts 4548-GE	SHEET NO. OF